

SEQUENCE LISTING

<110> Vaisvila, Romualdas
Morgan, Richard D.
Raleigh, Elisabeth

<120> Restriction Enzyme Gene Discovery Method

<130> NEB-165PUS

<140> 09/701,626
<141> 1999-06-11

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<151> 1998-06-12

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<150> PCT/US99/13295
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<160> 130

<170> PatentIn Ver. 2.0

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<223> Description of Unknown Organism: genomic DNA of
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<210> 5

<211> 77

<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 5
acctaacaat tggtaaagt cgctcgcttc gctcaactcg gaccggctaa agccggcccc 60
ttaaccaagc gtttaggt 77

<210> 6
<211> 87
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 6
acctaacatg gcgctcaacc gcgctccctt cggtcgctgg acgctgcgcg ataaaagccgc 60
gcagcgccgg ttagctctac gtttaggc 87

<210> 7
<211> 88
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 7
gtctaacaat tggctcaagt cggtcgcttc gctcaactcg gacgtccgca agctgcgctc 60
gcggccgccc cttagccaaa cgtaggt 88

<210> 8
<211> 89
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 8
acctaacaat gcgctcaact gccgctcaact tcgttcgctg gactcgcaaa agctgcgctt 60

ttgctcgccc gttagcttaa tcgttaggt 89

<210> 9
<211> 89
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 9
acctaacaat gcgctcaact gccgctcaact tcgttcgctg gacagtcaaa agctgcgctt 60
ttgcctgccc gttagcttaa tcgttaggc 89

<210> 10
<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 10
gcctaacaat gcgctcaaag cgctcaacttc gttcgctggg accggcgaag ccggcccctt 60
agcttaatcg ttaggt 76

<210> 11
<211> 77
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 11
acctaacaac tggttcaagt cgttcgcttc gctcactcg gaccggctaa agccggcccc 60
ttaaccaaac gttaggg 77

<210> 12
<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of

Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 12

gccttaacaat tggctcaagt cgttcgcttc gctcaactcg gaccggcgaa gccggccct 60
tagccaaacg ttaggt 76

<210> 13

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 13

acctaacaat gcgctcaact gccgctcaact tcgttcgctg gacagtcaaa agctgcgctt 60
ttgcctgccc gttagctaa tcgttaggc 89

<210> 14

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 14

gcctaacaag tggttcaaac cgttcgcttc gctcaactggg acgggctaaa gcccgccct 60
taacccaaacg ttaggc 76

<210> 15

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 15

ctctaacaat gcgctcaact atcgctcaact tcgttcgctg gactcgcaaa agctgcgctt 60
ttgctcgccc gttagctaa tcgttataaa 89

<210> 16

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 16

ttataacaat gcgctcaa at cggtcgcttc gctcaactggg acgggctaaa gcccggccct 60
tagcttaatc gttaaat 77

<210> 17

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 17

attnaacaat gcgctcaact gtcgctca ct tcggtcgctg gacagccaaa agctgcgtt 60
ttgtctgccc gttagctta tcgttaggg 89

<210> 18

<211> 78

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 18

ccctaacaaaa tggttcaaa ag ccgttcgctt cgctcaactcg ggaccggcta aagccggccc 60
cttaaccaaaa cgttagag 78

<210> 19

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 19

ctctaacaaaa tggttcaagt cgctcgcttc gctcaactcg gaccggctaa agccggcccc 60
ttaaccaaaa cgttaggc 77

<210> 20
<211> 88
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 20
gcctaacaac tcactcaacc tcgttcgctc cgctcaactgg actcgcaaaa gctacgcttt 60
tgctcgccgg ttagctcaaa cgtaggc 88

<210> 21
<211> 77
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 21
gccaacaacaa tggttcaagt cgctcgctcc gtcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gtttaggg 77

<210> 22
<211> 77
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 22
ccctaactag tggttcaagg cgctcgcttc gtcactcgg gaccggctaa agccggcccc 60
ttaaccaaac gtttaggc 77

<210> 23
<211> 78
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 23
gcctaacaaaa tggttcaagt cgttcgcttc gctcaactgcg ggaccggcta aagccggccc 60
cttaaccaaaa cgtaggt 78

<210> 24
<211> 77
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 24
acctaacaat tggttcaagt cgttcgcttc gctcaactcg gaccggctaa agccggcccc 60
ttaaccaaac gttaggc 77

<210> 25
<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 25
gcctaacaac tggttcaagt cactcgcttc gctcgttcg gaccggcata gccggccct 60
taaccaaacg ttaggt 76

<210> 26
<211> 77
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 26
gcctaacaat gcgttcaagt cgttcgcttc actcaactcg gaccggctaa agccggcccc 60
ttaaccaaac gttaggt 77

<210> 27
<211> 90
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 27
acctaacaaa cggttcaagt tcgttcgctt cgctcaactcc ggacgcccgc aagctacgct 60
cgcggtcgccc ccttaacctg tccgttaggc 90

<210> 28
<211> 89
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 28
gcctaacaat acgctcaact atcgctcaact tcgttcgctg gacgtccaaa agctgcgctt 60
ttggccgccc gttagcttaa ccgttatgt 89

<210> 29
<211> 89
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 29
acataacaat gcgctcaact gccgctcaact tcgttcgctg gacagccaaa agctacgctt 60
ttgcctgccc gttagcttaa tcgttaggc 89

<210> 30
<211> 89
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 30
gcctaacaag tcgctcaact gccgctcaact ccgttcgctg gacagccaaa agctgcgctt 60
ttgtctgccc gttagcttaa tcgttaggc 89

<210> 31
<211> 89
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 31
gcctaacaat gcgctcaact atcgctcaact ccgttcgctg gacgtccaaa agctgcgctt 60
ttggccgccc gttagcttaa tcgttaggc 89

<210> 32
<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 32
gcctaacaac tggttcaagg cactcgcttc gctcgctcg gaccgcgtac cgcggccct 60
taaccaaacg ttgggc 76

<210> 33
<211> 78
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 33
gcccaacaaa cggttcaaga ccgctcgccct tgctcgctcg ggaccggcta aaaccggccc 60
cttaaccaaata cgtaggg 78

<210> 34
<211> 75
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 34
gcctaaacaac tggttcaaata cgctcgctcc gctcgctggg accggcgaag ccggccccc 60
aaccaaacgt taggc 75

<210> 35
<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 35
gcctaaacaat gcgctcaaag cgctcaactt gttcgctggg accggcgaag ccggccccc 60
agcttaatcg ttaggt 76

<210> 36
<211> 89
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 36
acctaacaat gcgctcaact gtcgctcaact tcgttcgctg gacagtcaaa agctgcgtt 60
ttgcctgccc gtttagctaa tcgttagcg 89

<210> 37
<211> 64
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 37
cgctaaacaat tcgctgcagg cgcgacggcc ctgacgggcc gcggcctgag ctcaaacgtt 60
ataaa 64

<210> 38
<211> 78
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 38

ttataacaat tggttcaagt cgctcgcttc gctcactgctg ggaccggctaa aagccggccc 60
cttaaccaaa cgtaggc 78

<210> 39

<211> 78

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 39

gcctaacaat tggttcaagt cgctcgcttc gctcattcg gaccggctaa cgccggcccc 60
ttagcttaat cgtaggc 78

<210> 40

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 40

gcctaacaat aggttcaagt cgctcgcttc gctcacttgg gaccggctaa agccggcccc 60
ttaaccaaac gtttaggt 77

<210> 41

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 41

acctaacttag tggttcaagg cgctcgcttc gctcactcg gaccggctaa agccggcccc 60
ttaaccaaac gtttaggc 77

<210> 42

<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 42
atataaacaat tggttcaaacc cgttcgctgc gctcaactggg acgggctaaa gcccgccccct 60
taacccaaacg ttatgc 76

<210> 43
<211> 87
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 43
gcataaacaat tggctcaagg cgctcgctcc gctcaactcg acgtccgtaa gctacgcttc 60
cggccgcccc tttagccaaac gtttaggg 87

<210> 44
<211> 78
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 44
ccctaacaaaa tggttcaaagg ccgttcgctt cgctcaactcg ggaccggcta aagccggccc 60
cttaacccaaa cgtaggc 78

<210> 45
<211> 89
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 45

gcctaacaat gcgctcaact gccgctcaact tcgttcgctg gacagtcaaa agctgcgctt 60
ttgcctgccc gttagcttaa tcgttagag 89

<210> 46
<211> 77
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 46
ctctaacaat gcgctcaaat cgctcaactac gttcgctggg accggctaaa gccggccct 60
tagcttaatc gttagag 77

<210> 47
<211> 78
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 47
ctctaacaat tggttcaagt cgttcgcttc gctcaactgcg ggaccggcta aagccggccc 60
cttaaccaaaa cgtttaggg 78

<210> 48
<211> 77
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 48
ccctaacaaa tggttcaagt cactcgcttc gctcggtcg gaccggctaa agccggcccc 60
ttaaccaaac gttagag 77

<210> 49
<211> 78
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 49
ctctaacaac tggtaaagt cgttcgcttc gctcaactgctg ggaccggcta aagccggccc 60
cttaaccaaa cgtaggc 78

<210> 50
<211> 88
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 50
atctaacaat tggctcaagt cgttcgcttc gctcaactcg gacgtccaaat agctgcgcta 60
ttggccgccc cttagccaaa cgtaggc 88

<210> 51
<211> 78
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 51
gcctaacaac tggtaaagt cgttcgcttc gctcaactgctg ggaccggcta aagccggccc 60
cttaaccaaa cgtaggg 78

<210> 52
<211> 79
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 52
ccctaaccaaa tggtaaagt cgttccgctt cgctcaactgc gggaccggct aatgccggcc 60
ccttaaccaaa acgttaggc 79

<210> 53
<211> 89

<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 53
gccttaacact gcagtcaacc ggacacccaaa ctgtacgcag tttggttccc tccgctgcgc 60
tccggtgccg gttactttca acgttaggc 89

<210> 54
<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 54
gccttaacaat gcgctcaaag cgctcacttc gttcgctggg accggcgaag ccggccccc 60
agcttaatcg ttagaa 76

<210> 55
<211> 77
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 55
ttcttaactac tggttcaagt cgttcgcttc gctcactcgg gaccggctaa agccggcccc 60
ttaacccaaac gttagcc 77

<210> 56
<211> 89
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 56
ggcttaacaat gcgctcaact gtcgctcaact tcgttcgctg gacagccaaa agctacgctt 60

ttgtctgcc gttagcttaa tcgttagga 89

<210> 57
<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 57
gcctaacaac tggttcaagc cactcacttc gctcgctcg gaccgcgttc cgcggccct 60
taaccaaacg ttgggc 76

<210> 58
<211> 89
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 58
gcccaacaat gcgctcaact gccgctcaact tcgttcgctg gacgtccaaa agctacgctt 60
ttggccgccc gttagcttaa tcgttatgc 89

<210> 59
<211> 78
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 59
gcataacaat tgattcaagt cgttcgcttc gctcaactgctg ggaccggcta aagccggccc 60
cttaaccaaaa cgtaggc 78

<210> 60
<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of

Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 60
gcctaactac tggtaaagt cactcgcttc gctcggtcg gaccgcgttc cgccggccct 60
taaccaaacg ttaggc 76

<210> 61
<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 61
atctaacaat tggctcaagt cgttcgcttc gctcactcg gaccggcgaa gccggccct 60
tagccaaacg ttatgc 76

<210> 62
<211> 87
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 62
gcataacaat tggctcaagc cgctcgctcc gctcactcg acgtccgtaa gctacgcttc 60
cgcccgcccc ttagccaaac gttaggc 87

<210> 63
<211> 77
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 63
gcctaacaata tggtaaagt cgttcgcttc gctcactcg gaccggctaa agccggcccc 60
ttaaccaaac gttaggc 77

<210> 64
<211> 72
<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 64

gccttaactat tcagtcAACG ggacgcaaac cccgctgcgc ggtctttgcg ccgcTTtatct 60
caagcgTTtag at 72

<210> 65

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 65

atctaACATG tggTTcaAGC cgctcgCTTC gctcactcgg gaccggctaa agccggcccc 60
ttaaccaaaAC gttAGAG 77

<210> 66

<211> 76

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 66

ctctaacaAT tggTTcaAGC cgctcgCTTC gctcgcTCgg gatcggcgaa gccggcacct 60
taaccaaaACG ttagAG 76

<210> 67

<211> 78

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 67

ctctaacaAT tggTTcaAGT cgTCGCTTC gctcactcgcg ggaccggctg aagccggcccc 60
cttaaccaaa CGTTAGGC 78

<210> 68
<211> 77
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 68
gcttaactac tggtaaagt cgttcgcttc gtcactcg gaccggctaa agccggcccc 60
ttaaccaaac gtttaggc 77

<210> 69
<211> 77
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 69
gtctaacaat gcgctcaaag cgctcaacttc gttcgctggg atcggctaaa gccggccct 60
tagcttaatc gttagca 77

<210> 70
<211> 89
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 70
tgctaacaat gcgcttaact gtcgctcaact tcgtcgctg gatagtcaaa agctgcgctt 60
ttgtctgtcc gttagcttaa tcgttaggc 89

<210> 71
<211> 74
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 71
gcctaacaac tggttcaa at cgctcgctcc gctcgctggg accggcata g ccggccctta 60
accaagcgtt agat 74

<210> 72
<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 72
atctaacaat tggttaaaac cgttcgcttc gctcactggg accggctaaa gccggccct 60
taaccaaacg ttaggt 76

<210> 73
<211> 76
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 73
gtttaacaac tggttcaagc cgctcgcttc gctcactcg gaccggctaa attcgcccc 60
ttagcaaacg ttaact 76

<210> 74
<211> 78
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 74
atctaacaat tggttcaagt cgctcgcttc gctcactcg gaccggctaa agccggcccc 60
ttaaaccaag cgttatgc 78

<210> 75
<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 75

gtataacaat tggttcaagt cactcgcttc gctcgctcg gaccggctaa agccggcccc 60
ttaaccaaac gttagat 77

<210> 76

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 76

gcataacaag tcgctcaaat cgctcacttc gtttcgctgg gacgggctaa agcccgcccc 60
ttagcttatac gttaggc 77

<210> 77

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 77

gcctaacaaaa tggttcaagc cgttcgcttc gctcactcg gaccggctaa agccggcccc 60
ttaaccaaac gttagac 77

<210> 78

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA of
Pseudomonas Alcaligenes NEB #585 (ATCC 55044)

<400> 78

ctctaacaaaa tggttcaagc cgttcgcttc gctcactcg gaccggctaa agccggcccc 60
ttaaccaaac gttagag 77

<210> 79
<211> 52
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 79
tcgcttcgct cactgcggga ccggctaaag ccggccctt aacccaaacgt ta 52

<210> 80
<211> 43
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 80
taacaattgg ttcaagtcgt tcgcttcgct cactgcggga ccg 43

<210> 81
<211> 43
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 81
taactattca gtcaagcgga cgcaaacccc gctgcgcggc ctt 43

<210> 82
<211> 43
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 82
taacaatgcg ctcaactgcg ctcacttcgt tcgctggaca gcc 43

<210> 83
<211> 43
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 83
taacaagtcg ctcaactgcc gtcactcggt tcgctggaca gcc 43

<210> 84
<211> 19
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 84
gcccccctaac caaacgtta 19
19

<210> 85
<211> 20
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 85
ccgagtgagc gaagcgagcg 20
20

<210> 86
<211> 33
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 86
aaactcgagg gtcccgagtg agcgaagcga gcg 33

<210> 87
<211> 33
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 87
aaactcgagg gtcccgagcg agcgaagcga gcg 33

<210> 88
<211> 33
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 88
aaactcgagg ctgtccagcg agcgaagcga gcg 33

<210> 89
<211> 33
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 89
aaactcgaga ccgcgcagcg gggtttgcgt ccg 33

<210> 90

<211> 31
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 90
tgctctagac ggccccttaa ccaaacgtta g 31

<210> 91
<211> 35
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Synthetic
Oligonucleotide based on Pseudomonas Alcaligenes
NEB#585 (ATCC 55044)

<400> 91
tgctctagac ggccgcccgt tagcttaatc gttag 35

<210> 92
<211> 60
<212> DNA
<213> Unknown

<220>
<223> Position 2 & 60 - Y = C or T; Position 51 & 59 -
R = A or G

<220>
<223> Description of Unknown Organism: Consensus
sequence

<400> 92
gyctaacaat tcgttcaagc cgacgcccgt tcgcggcgcg gcttaactca rgcgtagry 60

<210> 93
<211> 7
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Consensus

sequence
<220>
<223> Position 4, 5 & 6 - R = A or G; Position 7 - Y = C
or T

<400> 93
gttrrry

7

<210> 94
<211> 7
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Consensus
sequence

<220>
<223> Position 1 - R = A or G; Position 2, 3 & 4 - Y = C
or T

<400> 94
ryyyaac

7

<210> 95
<211> 6
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Consensus
sequence

<220>
<223> Position 5 - R = A or G; Position 6 - Y = C or T

<400> 95
ttagry

6

<210> 96
<211> 24
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Consensus
Sequence

<400> 96
taacataaccc ctgcgttaaa cgtt 24

<210> 97
<211> 40
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Consensus Sequence

<400> 97
taacagtcaa cgtcctcgtc ctgcgcctt acaacgttag 40

<210> 98
<211> 74
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Consensus Sequence

<400> 98
ctaacaattg gttcaagtcg ctcgcttcgc tcgctcgga ccggctaaag ccggccctt 60
aacccaaacgt tagg 74

<210> 99
<211> 19
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 99
gccagatggc ggccgttta 19

<210> 100
<211> 5
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 100

tctac

5

<210> 101

<211> 33

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 101

gccctatgac agaaaacgct ttttgcggg ttt

33

<210> 102

<211> 10

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 102

ccaacgtccg

10

<210> 103

<211> 4

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 103

atag

4

<210> 104

<211> 9

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 104
tcatcgtcc

9

<210> 105
<211> 21
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 105
cccacgactt aacgcttgcc g

21

<210> 106
<211> 3
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 106
ata

3

<210> 107
<211> 28
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 107
tcagggaaaaa ccgcgttttg ccgttcga
<210> 108
<211> 5
<212> DNA
<213> Unknown

28

<220>
<223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 108

ctgaa

5

<210> 109

<211> 6

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 109

gatagg

6

<210> 110

<211> 4

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 110

tctaa

4

<210> 111

<211> 5

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 111

actaa

5

<210> 112

<211> 18

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 112
gccagatgtc ggccgttt 18

<210> 113
<211> 36
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 113
gcctctatga tagtaaaagc gctttttgt cggttt 36

<210> 114
<211> 6
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 114
cactga 6

<210> 115
<211> 5
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of
Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 115
aacta 5

<210> 116
<211> 8
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Genomic DNA Of

Pseudomonas Alcaligenes NEB#585 (ATCC 55044)

<400> 116

ccatttggaa

8

<210> 117

<211> 30

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 117

taactactct cctcgagccg ccctccgtta

30

<210> 118

<211> 64

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 118

ctaacatgg tcaagttcg ctcactggga ccggctaaag ccggccctt aaccaaacgt 60
tagg 64

<210> 119

<211> 77

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus
Sequence

<400> 119

gcctaacaat tggttcaagc cgttcgcttc gctcactcg gaccggctaa agccggcccc 60
ttaaccaaac gtttaggc 77

<210> 120

<211> 32

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus Sequence

<400> 120
aacgtcaacc tccgtctggc cggccttacg tt 32

<210> 121
<211> 50
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus Sequence

<400> 121
aacaggttca acctcctcgc tctgggaccc cgccccccta ccaaacgttg 50

<210> 122
<211> 77
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus Sequence

<400> 122
gcctaacaac tggtaagt cgctcgcttc gctcgctcg gaccggctaa agccggcccc 60
ttaaccaaac gttaggg 77

<210> 123
<211> 45
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus Sequence

<400> 123
aacacgctaa ccgctcctcg tcgctggagc gcgttagcta cgtta 45

<210> 124
<211> 75
<212> DNA
<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus Sequence

<400> 124

ctaacaatgc gctcaactcg ctcacttcgt tcgctggacc aaaagctcg 60
ttagcttaat cgtta 75

<210> 125

<211> 89

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus Sequence

<400> 125

acctaacaat gcgctcaact gtcgctcact tcgttcgctg gacagccaaa agctgcg 60
ttgcctgccc gttagcttaa tcgttaggc 89

<210> 126

<211> 49

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus Sequence

<400> 126

taacacgctc aacgtcctcg tcctggggca agccgcctt agctcg 49
ttta

<210> 127

<211> 64

<212> DNA

<213> Unknown

<220>

<223> Description of Unknown Organism: Consensus Sequence

<400> 127

taacaagcgc tcaaacgctc cttcgatcg 60
tttag 64

<210> 128

<211> 77
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Consensus
Sequence

<400> 128
gccttaacaat gcgctcaaag cgctcaactc gttcgctggg accggctaaa gccggccccc 60
tagcttaatc gttaggt 77

<210> 129
<211> 78
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Consensus
Sequence

<400> 129
gccttaacaat tggttcaagg tcgctcgctt cgctcaactcg ggaccggcta aagccggccc 60
cttaaccaaa cgtaggc 78

<210> 130
<211> 78
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism: Consensus
Sequence

<400> 130
gccttaacaat tggttcaagg tcgctcgctt cgctcaactcg ggaccggcta aagccggccc 60
cttaaccaaa cgtaggc 78